



Reissue #1
03/10/11

Technical Report for

GEI Consultants, Inc.

Canton Airport Canton MA

09382-2

Accutest Job Number: M91579T

Sampling Date: 05/20/10

Report to:

GEI Consultants, Inc.

LLombardo@geiconsultants.com

ATTN: Leslie Lombardo

Total number of pages in report: 33



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Reza Fand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.



August 16, 2010

Mr. Raymond Siegener, Ph.D.
GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801-1970

RE: Accutest Job M91579T (Revision 1)

Dear Mr. Siegener:

The final report for Accutest job number M91579T has been revised to include a case narrative description of the client-requested dilution of the sample M91579-62T.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Warren", followed by a long horizontal line.

Mark Warren
Accutest Laboratories of New England, Inc.

Table of Contents

-1-

Section 1: Sample Summary	4
Section 2: Case Narrative/Conformance Summary	5
Section 3: Sample Results	6
3.1: M91579-62T: 093822-HS-AF-5.5	7
3.2: M91579-102T: 093822-HS-AT.5-8	8
Section 4: Misc. Forms	9
4.1: Chain of Custody	10
4.2: MCP Form	24
4.3: Sample Tracking Chronicle	25
Section 5: GC Semi-volatiles - QC Data Summaries	26
5.1: Method Blank Summary	27
5.2: Blank Spike/Blank Spike Duplicate Summary	29
5.3: Matrix Spike/Matrix Spike Duplicate Summary	31
5.4: Surrogate Recovery Summaries	33



Sample Summary

GEI Consultants, Inc.

Job No: M91579T

Canton Airport Canton MA
Project No: 09382-2

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
M91579-62T	05/20/10	10:04 SSH	05/21/10	SO	Soil	093822-HS-AF-5.5
M91579-102T	05/20/10	10:13 SSH	05/21/10	SO	Soil	093822-HS-AT.5-8

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: GEI Consultants, Inc.**Job No** M91579T**Site:** Canton Airport Canton MA**Report Date** 8/16/2010 3:47:42 PM

2 Samples were collected on 05/20/2010 and were received at Accutest on 05/21/2010 properly preserved, at 2.5 Deg. C and intact. These Samples received an Accutest job number of M91579T. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method SW846 8082

Matrix: SO**Batch ID:** OP22182

- All samples were analyzed within the recommended method holding time.
- Sample(s) M93301-7MS, M93301-7MSD, OP22182-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- M91579-102T (file YZ59050) for Decachlorobiphenyl: Outside control limits due to possible matrix interference.
- M91579-102T (file YZ59062) for Decachlorobiphenyl and Tetrachloro-m-xylene: Outside control limits due to dilution.
- Sample M91579-62T was diluted using Ottawa sand prior to preparation and analysis. 130.28 grams (g) of sand was added to a 10.52 g aliquot of sample and homogenized thoroughly resulting in a dilution factor of 12.4.

Matrix: SO**Batch ID:** OP22217

- All samples were analyzed within the recommended method holding time.
- Sample(s) M93324-1MS, M93324-1MSD, OP22217-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M91579T).

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

Client Sample ID: 093822-HS-AF-5.5
 Lab Sample ID: M91579-62T
 Matrix: SO - Soil
 Method: SW846 8082 SW846 3540C
 Project: Canton Airport Canton MA

Date Sampled: 05/20/10
 Date Received: 05/21/10
 Percent Solids: 88.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ59168.D	1	08/08/10	CZ	08/05/10	OP22217	GYZ2524
Run #2	YZ59199.D	10	08/09/10	CZ	08/05/10	OP22217	GYZ2525

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	110	ug/kg	
11104-28-2	Aroclor 1221	ND	110	ug/kg	
11141-16-5	Aroclor 1232	ND	110	ug/kg	
53469-21-9	Aroclor 1242	ND	110	ug/kg	
12672-29-6	Aroclor 1248	ND	110	ug/kg	
11097-69-1	Aroclor 1254	ND	110	ug/kg	
11096-82-5	Aroclor 1260	3020 ^a	1100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%	91%	30-150%
877-09-8	Tetrachloro-m-xylene	41%	56%	30-150%
2051-24-3	Decachlorobiphenyl	78%	91%	30-150%
2051-24-3	Decachlorobiphenyl	99%	92%	30-150%

(a) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	093822-HS-AT.5-8	Date Sampled:	05/20/10
Lab Sample ID:	M91579-102T	Date Received:	05/21/10
Matrix:	SO - Soil	Percent Solids:	90.4
Method:	SW846 8082 SW846 3540C		
Project:	Canton Airport Canton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ59050.D	1	08/05/10	CZ	08/03/10	OP22182	GYZ2518
Run #2	YZ59062.D	1000	08/05/10	CZ	08/03/10	OP22182	GYZ2519

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2	15.3 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	110	ug/kg	
11104-28-2	Aroclor 1221	ND	110	ug/kg	
11141-16-5	Aroclor 1232	ND	110	ug/kg	
53469-21-9	Aroclor 1242	ND	110	ug/kg	
12672-29-6	Aroclor 1248	ND	110	ug/kg	
11097-69-1	Aroclor 1254	ND	110	ug/kg	
11096-82-5	Aroclor 1260	429000 ^a	110000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%	0% ^b	30-150%
877-09-8	Tetrachloro-m-xylene	108%	0% ^b	30-150%
2051-24-3	Decachlorobiphenyl	150%	0% ^b	30-150%
2051-24-3	Decachlorobiphenyl	151% ^c	0% ^b	30-150%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

(c) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank


N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:


- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle

Chain-of-Custody Record				Laboratory: <u>Accutest</u>		Laboratory Job # <u>M91579T</u> <small>(Lab use only)</small>							
 GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073		Project Information											
		Project Name: <u>Canton Airport</u>				Project Location: <u>Canton, MA</u>							
		Project Number: <u>09382-2</u>				Project Manager: <u>Anne Leifer</u>							
		Send Report to: <u>Ray Siegenger</u>				Preservation Nine <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
Send EDD to: <u>labdata@geiconsultants.com</u>				Analysis PCBs by manual soxlet extraction <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Sample Handling Samples Field Filtered YES <input type="radio"/> NO <input checked="" type="radio"/>							
MCP PRESUMPTIVE CERTAINTY REQUIRED - YES <input checked="" type="radio"/> NO <input type="radio"/> If Yes, Are MCP Analytical Methods Required? YES <input checked="" type="radio"/> NO <input type="radio"/> NA <input type="radio"/> If Yes, Are Drinking Water Samples Submitted? YES <input checked="" type="radio"/> NO <input type="radio"/> NA <input type="radio"/> If Yes, Have You Met Minimum Field QC Requirements? YES <input checked="" type="radio"/> NO <input type="radio"/> NA <input type="radio"/>				Sampled Shipped With Ice YES <input checked="" type="radio"/> NO <input type="radio"/>									
Lab Sample Number		GEI Sample ID		Collection		No. of Bottles		Sampler(s) Initials		PCBs by manual soxlet extraction		Sample Specific Remarks	
				Date		Time		Matrix		No. of Bottles		Sampler(s) Initials	
-1		093822-HS-AF-6		5/26/10		0900		SO		1		SSH	
-2		093822-HS-AF-7				0901							
-3		093822-HS-AF-8				0902							
-4		093822-HS-AF-9				0903							
-5		093822-HS-AG-6				0904							
-6		093822-HS-AG-7				0905							
-7		093822-HS-AG-8				0906							
-8		093822-HS-AG-9				0907							
-9		093822-HS-AG-10				0908							
-9		093822-HS-AH-6				0909							
-10		093822-HS-AH-7				0910							
-11		093822-HS-AH-8				0911							
MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.												Turnaround Time (Business days): Normal <input checked="" type="checkbox"/> Other <input type="checkbox"/> 10-Day <input type="checkbox"/> 7-Day <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>	
Relinquished by (signature)				Date		Time		Received by (signature)				Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved. Additional Requirements/Comments/Remarks: MANUAL SOXLET EXTRACTION REQUIRED. <u>13F</u> DCR RATES APPLY. <u>CAUTION - Potential Leaked PCBs</u> <u>2.52</u>	
1. <u>[Signature]</u>				5/20/10		1530		1. <u>GEI Sample fridge</u>					
Relinquished by (signature)				Date		Time		Received by (signature)					
2. <u>GEI Sample fridge</u>				5/24/10		1235		2. <u>[Signature]</u>					
Relinquished by (signature)				Date		Time		Received by (signature)					
3. <u>[Signature]</u>				5/24/10		1236		3. <u>[Signature]</u>					
Relinquished by (signature)				Date		Time		Received by (signature)					
4. <u>[Signature]</u>				5/24/10		1525		4. <u>[Signature]</u>					

5/19/2010
V:\Forms & Templates\Chain of Custody


M91579T: Chain of Custody

Page 1 of 14

Chain-of-Custody Record			Laboratory: Accutest			Laboratory Job # M91579																																																																																																																																																																																																																																																																																																																																																																																		
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NO <input type="radio"/> NA</td> <td colspan="3">Sampled Shipped With Ice</td> <td colspan="3"> YES <input type="radio"/> NO <input checked="" type="radio"/> </td> </tr> <tr> <td colspan="3">If Yes, Are Drinking Water Samples Submitted? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA</td> <td colspan="3">Sample Specific Remarks</td> <td colspan="3"> </td> </tr> <tr> <td colspan="3">If Yes, Have You Met Minimum Field QC Requirements? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA</td> <td colspan="3"> </td> <td colspan="3"> </td> </tr> <tr> <td>Lab Sample Number</td> <td>GEI Sample ID</td> <td>Collection Date</td> <td>Time</td> <td>Matrix</td> <td>No. of Bottles</td> <td>Sampler(s) Initials</td> <td colspan="3"> </td> </tr> <tr> <td>-12</td> <td>093822-HS-AH-9</td> <td>5/20/10</td> <td>0912</td> <td>SO</td> <td>1</td> <td>SSH</td> <td colspan="3">HOLD/PRCCG</td> </tr> <tr> <td>-13</td> 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colspan="2">10-Day <input type="checkbox"/> 7-Day <input type="checkbox"/></td> </tr> <tr> <td colspan="2">Relinquished by (signature)</td> <td>Date</td> <td>Time</td> <td colspan="3">Received by (signature)</td> <td colspan="2">5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/></td> </tr> <tr> <td colspan="2">2. <i>GEI Sample Frndge</i></td> <td>5/21/10</td> <td>1235</td> <td colspan="3">2. <i>Tom Pucile</i></td> <td colspan="2">Additional Requirements/Comments/Remarks:</td> </tr> <tr> <td colspan="2">Relinquished by (signature)</td> <td>Date</td> <td>Time</td> <td colspan="3">Received by (signature)</td> <td colspan="2">MANUAL SOXLET EXTRACTION REQUIRED.</td> </tr> <tr> <td colspan="2">3. <i>Tom Pucile</i></td> <td>5/21/10</td> <td>1236</td> <td colspan="3">3. <i>Will Dell</i></td> <td colspan="2">DCR RATES APPLY.</td> </tr> <tr> <td colspan="2">Relinquished by (signature)</td> <td>Date</td> <td>Time</td> <td colspan="3">Received by (signature)</td> <td colspan="2">CAUTION - Potential elevated PCBs</td> </tr> <tr> <td colspan="2">4. <i>Will Dell</i></td> <td>5/21/10</td> <td>1528</td> <td colspan="3">4. <i>Will Dell</i></td> <td colspan="2">5/19/2010</td> </tr> </table>			Analysis										<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBs by manual soxlet extraction</div> <table border="1" style="width: 90%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> 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<input type="radio"/> NA			Sampled Shipped With Ice			YES <input type="radio"/> NO <input checked="" type="radio"/>			If Yes, Are Drinking Water Samples Submitted? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA			Sample Specific Remarks						If Yes, Have You Met Minimum Field QC Requirements? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA									Lab Sample Number	GEI Sample ID	Collection Date	Time	Matrix	No. of Bottles	Sampler(s) Initials				-12	093822-HS-AH-9	5/20/10	0912	SO	1	SSH	HOLD/PRCCG			-13	093822-HS-AH-10		0913							-14	093822-HS-AI-6		0914							-15	093822-HS-AI-7		0915							-16	093822-HS-AI-8		0916				HOLD/PRCCG			-17	093822-HS-AI-9		0917							-18	093822-HS-AI-10		0918				HOLD/PRCCG			-19	093822-HS-AJ-6		0919							-20	093822-HS-AJ-7		0920							-21	093822-HS-AJ-8		0921							-22	093822-HS-AJ-9		0922							-23	093822-HS-AJ-10		0923							MCP Level Needed: GEI requires the most stringent 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Turnaround Time (Business days):			Relinquished by (signature)		Date	Time	Received by (signature)			Normal <input checked="" type="checkbox"/> Other <input type="checkbox"/>		1. <i>[Signature]</i>		5/20/10	1530	1. <i>GEI Sample Frndge</i>			10-Day <input type="checkbox"/> 7-Day <input type="checkbox"/>		Relinquished by (signature)		Date	Time	Received by (signature)			5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>		2. <i>GEI Sample Frndge</i>		5/21/10	1235	2. <i>Tom Pucile</i>			Additional Requirements/Comments/Remarks:		Relinquished by (signature)		Date	Time	Received by (signature)			MANUAL SOXLET EXTRACTION REQUIRED.		3. <i>Tom Pucile</i>		5/21/10	1236	3. <i>Will Dell</i>			DCR RATES APPLY.		Relinquished by (signature)		Date	Time	Received by (signature)			CAUTION - Potential elevated PCBs		4. <i>Will Dell</i>		5/21/10	1528	4. <i>Will Dell</i>			5/19/2010	
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M91579T: Chain of Custody

Page 2 of 14

Chain-of-Custody Record				Laboratory: <u>Accutest</u>		Laboratory Job # <u>M91579</u> <small>(Lab use only)</small>	
 GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073				Project Information			
				Project Name: <u>Canton Airport</u>		Project Location: <u>Canton, MA</u>	
				Project Number: <u>09382-2</u>		Project Manager: <u>Anne Lelfer</u>	
				Send Report to: <u>Ray Siegenger</u>		Send EDD to: <u>labdata@geiconsultants.com</u>	
MCP PRESUMPTIVE CERTAINTY REQUIRED: <input checked="" type="radio"/> YES <input type="radio"/> NO If Yes, Are MCP Analytical Methods Required? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA If Yes, Are Drinking Water Samples Submitted? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA If Yes, Have You Met Minimum Field QC Requirements? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA				Preservative		Sample Handling	
				None		Samples Field Filtered YES <input type="radio"/> NO <input checked="" type="radio"/> NA	
				Analysis		Sampled Shipped With Ice <input checked="" type="radio"/> YES <input type="radio"/> NO	
				PCBs by manual soxlet extraction		Sample Specific Remarks	
Lab Sample Number	GEI Sample ID	Date	Time	Matrix	No. of Bottles	Sampler(s) Initials	
-24	093822-HS-AL-6	5/20/10	0924	SO	1	SSH	X
-25	093822-HS-AL-7		0925				X
-26	093822-HS-AL-8		0926				X
-27	093822-HS-AL-9		0927				X
-28	093822-HS-AL-10		0928				X
-29	093822-HS-AL-6		0929				X
-30	093822-HS-AL-7		0930				X
-31	093822-HS-AL-8		0931				X
-32	093822-HS-AL-9		0932				X
-33	093822-HS-AL-10		0933				X
-34	093822-HS-AM-8		0934				X
-35	093822-HS-AM-9		0935				X
MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.				Turnaround Time (Business days): Normal <input checked="" type="checkbox"/> 10-Day <input type="checkbox"/> 5-Day <input type="checkbox"/> Other <input type="checkbox"/> 7-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>		Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.	
Relinquished by: (signature)		Date:	Time:	Received by: (signature)			
1. <i>[Signature]</i>		5/20/10	1530	1. <i>GEI Sample Bridge</i>			
Relinquished by: (signature)		Date:	Time:	Received by: (signature)			
2. <i>GEI Sample Bridge</i>		5/21/10	1235	2. <i>[Signature]</i>			
Relinquished by: (signature)		Date:	Time:	Received by: (signature)			
3. <i>[Signature]</i>		5/21/10	1236	3. <i>Will Hall</i>			
Relinquished by: (signature)		Date:	Time:	Received by: (signature)			
4. <i>Will Hall</i>		5/21/10	1525	4. <i>Will Hall</i>			
Additional Requirements/Comments/Remarks: MANUAL SOXLET EXTRACTION REQUIRED.				DCR RATES APPLY.			
CAUTION - Potential elevated PCBs							

M91579T: Chain of Custody

Page 3 of 14

Chain-of-Custody Record			Laboratory: Accutest		Laboratory Job # M91579T										
 <p>GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073</p>			Project Information				Page 4 of 9								
			Project Name: Canton Airport		Project Location: Canton, MA										
			Project Number: 09382-2		Project Manager: Anne Leifer										
			Send Report to: Ray Siegner		Preservative										
Send EDD to: labdata@geiconsultants.com		None		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Analysis</td> </tr> <tr> <td style="width: 50%; text-align: center;">PCBs by manual soxlet extraction</td> <td style="width: 50%; text-align: center;">Analysis</td> </tr> <tr> <td style="height: 100px;"></td> <td style="height: 100px;"></td> </tr> </table>		Analysis		PCBs by manual soxlet extraction	Analysis						
Analysis															
PCBs by manual soxlet extraction	Analysis														
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Lab Sample Number	GEI Sample ID	Collection Date	Time	Matrix	No. of Bottles	Sampler(s) Initials	PCBs by manual soxlet extraction	Sample Specific Remarks							
-36	093822-HS-AM-10	5/20/10	0936	SO	1	SSH	X	HOLD/FREEZE							
-37	093822-HS-AM-8		0937				X								
-38	093822-HS-AM-9		0938				X								
-39	093822-HS-AM-10		0939				X								
-40	093822-HS-AQ-8		0940				X	✓							
-41	093822-HS-AQ-9		0941				X								
-42	093822-HS-AQ-10		0942				X	HOLD/FREEZE							
-43	093822-HS-AP-8		0943				X								
-44	093822-HS-AP-9		0944				X								
-45	093822-HS-AP-10		0945				X								
-46	093822-HS-AQ-8		0946				X	✓							
-47	093822-HS-AQ-9		0947				X								
MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.							Turnaround Time (Business days):								
Relinquished by (signature)		Date:	Time:	Received by (signature)		Normal <input checked="" type="checkbox"/> Other <input type="checkbox"/>									
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Relinquished by (signature)		Date:	Time:	Received by (signature)		5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>									
2. [Signature]		5/21/10	1235	2. [Signature]		Additional Requirements/Comments/Remarks:									
Relinquished by (signature)		Date:	Time:	Received by (signature)		MANUAL SOXLET EXTRACTION REQUIRED.									
3. [Signature]		5/21/10	1236	3. [Signature]		DCR RATES APPLY.									
Relinquished by (signature)		Date:	Time:	Received by (signature)		CAUTION - Potential elevated PCBs									
4. [Signature]		5/21/10	1528	4. [Signature]											

5/19/2010
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M91579T: Chain of Custody

Page 4 of 14

Chain-of-Custody Record				Laboratory: Accutest		Laboratory Job # M91579T																																																																																																																																																																																																																																							
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M91579T: Chain of Custody
Page 5 of 14

4.1

Chain-of-Custody Record				Laboratory: Accutest		Laboratory Job # M91579	
GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073				Project Information			
				Project Name: Canton Airport		Project Location: Canton, MA	
				Project Number: 09382-2		Project Manager: Anne Leifer	
				Send Report to: Ray Siegner		Send EDD to: labdata@geiconsultants.com	
MCP PRESUMPTIVE CERTAINTY REQUIRED <input checked="" type="radio"/> YES <input type="radio"/> NO If Yes, Are MCP Analytical Methods Required? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA If Yes, Are Drinking Water Samples Submitted? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA If Yes, Have You Met Minimum Field QC Requirements? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA				Preservative		Page 7 of 9 Sample Handling Samples Field Filtered YES <input type="radio"/> NO <input checked="" type="radio"/> NA Sampled Shipped With Ice <input checked="" type="radio"/> YES <input type="radio"/> NO	
				Analysis			
				PCBs by manual Soxhlet extraction			
Lab Sample Number	GEI Sample ID	Date	Time	Matrix	No. of Bottles	Sample(s) Initials	
-71	093822-HS-AT-5-9	5/20/10	1014	SO	1	SSH	X
-72	093822-HS-AT-5-10		1015				X
-73	093822-HS-AM-7.5		1016				X
-74	093822-HS-AN-7.5		1017				X
-75	093822-HS-AQ-7.5		1018				X
-76	093822-HS-AP-7.5		1019				X
-77	093822-HS-AQ-7.5		1020				X
-78	093822-HS-AR-7.5		1021				X
-79	093822-HS-AS-7.5		1022				X
-80	093822-HS-AT-7.5		1023				X
-81	093822-HS-AH-10.5		1024				X
-82	093822-HS-AT-10.5		1025				X
MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible. Relinquished by (signature): <i>[Signature]</i> Date: 5/20/10 Time: 1530 Received by (signature): 1. <i>GEI Fridge</i> Relinquished by (signature): 2. <i>GEI Sample Bldg</i> Date: 5/21/10 Time: 1235 Received by (signature): 2. <i>Tom Doriga</i> Relinquished by (signature): 3. <i>Tom Doriga</i> Date: 5/21/10 Time: 1236 Received by (signature): 3. <i>with dull</i> Relinquished by (signature): 4. <i>with dull</i> Date: 5/24/10 Time: 1525 Received by (signature): 4. <i>with dull</i>				Turnaround Time (Business days): Normal <input checked="" type="checkbox"/> 10-Day <input type="checkbox"/> 5-Day <input type="checkbox"/> Other <input type="checkbox"/> 7-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>		Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.	
				Additional Requirements/Comments/Remarks: MANUAL SOXLET EXTRACTION REQUIRED. DCR RATES APPLY. CAUTION - Potential elevated PCBs			

M91579T: Chain of Custody

Page 7 of 14

Chain-of-Custody Record				Laboratory: Accutest		Laboratory Job # M91579																																																																																																																																																																																																																																																														
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M91579T: Chain of Custody

Page 8 of 14

Chain-of-Custody Record				Laboratory: Accutest				Laboratory Job # M91579					
GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073				Project Information								Page 9 of 9	
				Project Name: Canton Airport				Project Location: Canton, MA					
				Project Number: 09382-2				Project Manager: Anne Loffer					
Send Report to: Ray Siegener				Preservative				Sample Handling					
Send EDD to: labdata@geiconsultants.com													
MCP PRESUMPTIVE CERTAINTY REQUIRED <input checked="" type="radio"/> YES <input type="radio"/> NO				Analysis				Samples Field Filtered YES <input type="radio"/> NO <input checked="" type="radio"/> NA Sampled Shipped With Ice YES <input type="radio"/> NO <input checked="" type="radio"/>					
If Yes, Are MCP Analytical Methods Required? YES <input type="radio"/> NO <input checked="" type="radio"/> NA If Yes, Are Drinking Water Samples Submitted? YES <input type="radio"/> NO <input checked="" type="radio"/> NA If Yes, Have You Met Minimum Field QC Requirements? YES <input type="radio"/> NO <input checked="" type="radio"/> NA													
Lab Sample Number	GEI Sample ID	Collection Date	Time	Matrix	No. of Bottles	Sampler(s) Initials	PCBs by manual soxlet extraction					Sample Specific Remarks	
-95	093822-HS-AF-9.5	5/20/10	1038	SO	1	SSH	X						
-96	" " -AG-9.5		1039				X						
-97	" " -DUP-1		1200				X						
-98	" " -2		1201				X						
-99	" " -3		1202				X						
-100	" " -4		1203				X						
-101	" " -5		1204				X						
702-1st static	093822-HS-AT-S-8	5/20/10	1013	SD	1	SSH	X						
MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible							Turnaround Time (Business days):		Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.				
Relinquished by (signature): <i>[Signature]</i> Date: 5/20/10 Time: 1530 Received by (signature): <i>[Signature]</i>							Normal <input checked="" type="checkbox"/> 10-Day <input type="checkbox"/> 5-Day <input type="checkbox"/> Other <input type="checkbox"/> 7-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>						
Relinquished by (signature): <i>[Signature]</i> Date: 5/21/10 Time: 1235 Received by (signature): <i>[Signature]</i>							Additional Requirements/Comments/Remarks:						
Relinquished by (signature): <i>[Signature]</i> Date: 5/21/10 Time: 1236 Received by (signature): <i>[Signature]</i>													
Relinquished by (signature): <i>[Signature]</i> Date: 5/24/10 Time: 1526 Received by (signature): <i>[Signature]</i>													
MANUAL SOXLET EXTRACTION REQUIRED.							DCR RATES APPLY.						
CAUTION - Potential elevated PCBs							5/19/2010						
							V:\Forms & Templates\Chain of Custody						

M91579T: Chain of Custody

Page 9 of 14

Chain-of-Custody Record				Laboratory: <u>Accutest</u>		Laboratory Job #: <u>M91579T</u>																																																																																																						
 <p>GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073</p>		Project Information				Page <u>1</u> of <u>9</u>																																																																																																						
		Project Name: <u>Canton Airport</u>		Project Location: <u>Canton, MA</u>																																																																																																								
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		Send Report to: <u>Ray Siegner</u>		Send EDD to: <u>labdata@gelconsultants.com</u>																																																																																																								
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<table border="1"> <thead> <tr> <th>GEI Sample #</th> <th>Date</th> <th>Collection #</th> <th>No. of Bottles</th> <th>Analysis</th> <th>PCBs by manual soxlet extraction</th> <th>Sample Specimen</th> </tr> </thead> <tbody> <tr> <td>-1 093822 HS-AF-6</td> <td>5/29/10</td> <td>0900</td> <td>SO</td> <td>1</td> <td>SSH</td> <td>X</td> <td>HOLD/FREEZE</td> </tr> <tr> <td>-2 093822 HS-AE-7</td> <td></td> <td>0901</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>-3 093822 HS-AF-8</td> <td></td> <td>0902</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>-4 093822 HS-AF-9</td> <td></td> <td>0903</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>-5 093822 HS-AG-6</td> <td></td> <td>0904</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>-6 093822 HS-AG-7</td> <td></td> <td>0905</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>-7 093822 HS-AG-8</td> <td></td> <td>0906</td> <td></td> <td></td> <td></td> <td>X</td> <td>HOLD/FREEZE</td> </tr> <tr> <td>-8 093822 HS-AG-9</td> <td></td> <td>0908</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>-9 093822 HS-AE-10</td> <td></td> <td>0909</td> <td></td> <td></td> <td></td> <td></td> <td>HS-10116</td> </tr> <tr> <td>-9 093822 HS-AH-6</td> <td></td> <td>0909</td> <td></td> <td></td> <td></td> <td>X</td> <td>RUN HOLD/FREEZE</td> </tr> <tr> <td>-10 093822 HS-AH-7</td> <td></td> <td>0910</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>-11 093822 HS-AH-8</td> <td></td> <td>0911</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table>				GEI Sample #	Date	Collection #	No. of Bottles	Analysis	PCBs by manual soxlet extraction	Sample Specimen	-1 093822 HS-AF-6	5/29/10	0900	SO	1	SSH	X	HOLD/FREEZE	-2 093822 HS-AE-7		0901				X		-3 093822 HS-AF-8		0902				X		-4 093822 HS-AF-9		0903				X		-5 093822 HS-AG-6		0904				X		-6 093822 HS-AG-7		0905				X		-7 093822 HS-AG-8		0906				X	HOLD/FREEZE	-8 093822 HS-AG-9		0908				X		-9 093822 HS-AE-10		0909					HS-10116	-9 093822 HS-AH-6		0909				X	RUN HOLD/FREEZE	-10 093822 HS-AH-7		0910				X		-11 093822 HS-AH-8		0911				X			
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1. <u>[Signature]</u> Date: <u>5/20/10</u> Time: <u>1230</u> Received by: (signature) <u>1. GEI Sample Fridge</u> 2. <u>GEI Sample Fridge</u> Date: <u>5/24/10</u> Time: <u>1235</u> Received by: (signature) <u>2. Tom Sample</u> 3. <u>[Signature]</u> Date: <u>5/24/10</u> Time: <u>1236</u> Received by: (signature) <u>3. Will [Signature]</u> 4. <u>Will [Signature]</u> Date: <u>5/24/10</u> Time: <u>1515</u> Received by: (signature) <u>4. [Signature]</u>				Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved. Normal <input checked="" type="checkbox"/> 10-Day <input type="checkbox"/> 5-Day <input type="checkbox"/> Other <input type="checkbox"/> 7-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>																																																																																																								
Manual Soxlet Extraction Required: <u>13P</u> DCR Rates Apply: <u>2.5%</u> CAUTION - Potential Leaked PCBs																																																																																																												


M91579T: Chain of Custody

Page 10 of 14

Chain-of-Custody Record				Laboratory: Accutest		Project Job # M91579T	
Project Information				Project Location: Canton, MA		Page 2 of 9	
GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073				Project Name: Canton Airport Project Number: 09382-2 Send Report to: Ray Siegner Send EDD to: labdata@geiconsultants.com		Project Manager: Anne Leifer Preservation: <input type="checkbox"/> None <input type="checkbox"/> Yes <input type="checkbox"/> No Analysis: <input type="checkbox"/> None <input type="checkbox"/> Yes <input type="checkbox"/> No	
MCP PRESUMPTIVE SCREENING REQUIRED If Yes, Are MCP Analytical Methods Required? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA <input type="checkbox"/> If Yes, Are Drinking Water Samples Submitted? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA <input type="checkbox"/> If Yes, Have You Met Minimum Field QC Requirements? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA <input type="checkbox"/>				Samples Field Filtered YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA <input type="checkbox"/> Samples Shipped With Ice YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
Sample Number	Sample Description	Date	Time	No. Bottom	PCBs by manual solid extraction	PCBs by Soxhlet extraction	Notes
-12	093822 HS-AH-9	5/20/10	0912	80	1	SSH	X HOLD/FREEZE
-13	093822 HS-AH-10		0913				X
-14	093822 HS-AT-6		0914				X RUN
-15	093822 HS-AT-7		0915				X
-16	093822 HS-AT-8		0916				X
-17	093822 HS-AT-9		0917				X
-18	093822 HS-AT-10		0918				X
-19	093822 HS-AJ-6		0919				X RUN
-20	093822 HS-AJ-7		0920				X
-21	093822 HS-AJ-8		0921				X
-22	093822 HS-AJ-9		0922				X
-23	093822 HS-AJ-10		0923				X
Received by (signature): <i>[Signature]</i> Date: 5/20/10 Time: 1530 1. GEI Sample Fridge				Received by (signature): <i>[Signature]</i> Date: 5/21/10 Time: 1235 2. Jeff Pogue		Turnaround time (business days): Normal <input checked="" type="checkbox"/> 10-Day <input type="checkbox"/> 5-Day <input type="checkbox"/> Other <input type="checkbox"/> 7-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>	
Received by (signature): <i>[Signature]</i> Date: 5/21/10 Time: 1236 3. Will Dell				Received by (signature): <i>[Signature]</i> Date: 5/21/10 Time: 1528 4. Will Dell		Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved. Additional Requirements (if any): MANUAL SOXHLET EXTRACTION REQUIRED. DCR RATES APPLY. CAUTION - Potential elevated PCBs	

M91579T: Chain of Custody

Page 11 of 14

Chain-of-Custody Record				Laboratory: <u>Accutest</u>		Laboratory Job #: <u>M91579T</u>																																																																																																																															
 <p>GEI CONSULTANTS 400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073</p>		Project Name: <u>Canton Airport</u>				Project Location: <u>Canton, MA</u>																																																																																																																															
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MCP PRESUMPTIVE CERTAINLY REQUIRED: <input checked="" type="radio"/> YES <input type="radio"/> NO If Yes, Are MCP Analytical Methods Required? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA If Yes, Are Drinking Water Samples Submitted? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA If Yes, Have You Met Minimum Field QC Requirements? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA																																																																																																																																					
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MCP/USEPA Method 1631/1631F is the most stringent Method. MCP standard is 100 ppb. Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.				Normal <input checked="" type="checkbox"/> Other <input type="checkbox"/> 10-Day <input type="checkbox"/> 7-Day <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>		Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.																																																																																																																															
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M91579T: Chain of Custody

Page 12 of 14

M91579T

Tyana Nguyen

From: Mark Warren
Sent: Monday, August 02, 2010 3:41 PM
To: Tyana Nguyen
Subject: FW: Comparability Study

Hi Tyana,

Would you enter these re-log projects for me? You can use an "R" job or "T" job as some of these projects already have "R" jobs. Thanks,

Mark Warren
 Accutest Laboratories of NE
 Voice: 508.481.6200 Ext. 247
 Fax: 508.481.7753
markw@accutest.com

Accutest - "The national Testing Laboratory with Total Performance you can count on"

From: Mark Warren
Sent: Monday, August 02, 2010 2:19 PM
To: Kristen Blanchard
Subject: FW: Comparability Study

Kristen,

I need to talk to you briefly about this. Thanks,

Mark Warren
 Accutest Laboratories of NE
 Voice: 508.481.6200 Ext. 247
 Fax: 508.481.7753
markw@accutest.com

Accutest - "The national Testing Laboratory with Total Performance you can count on"

From: Siegenger, Ray [mailto:RSiegenger@gelconsultants.com]
Sent: Wednesday, July 28, 2010 3:45 PM
To: Mark Warren; Frank D'Agostino; Reza Tand
Cc: Haley, Heather; Oosting, Saskia; Lelfer, Anne
Subject: Comparability Study

Hi Mark-

As we discussed, we still need to perform some additional work to get this comparability study completed. The table below has two sections – the top contains two samples that were close to the 1 ppm standard when analyzed initially. We would like you to reextract (using Method 3540C) and reanalyze these samples with no dilution to see if we get results within the windows we need to hit (0.90 ppm – 1.0 ppm or 1.0 ppm – 1.10 ppm).

For the second set of 4 samples, we have included the initial result and the recommended dilution we would like you to perform, prior to extraction, to obtain sample results within the ranges listed above. As we discussed,

8/2/2010

M91579T: Chain of Custody
Page 13 of 14

you can use clean sand to dilute these samples prior to extraction by Method 3540C – please prepare enough of the diluted samples so there is material remaining for extraction using Method 3545, if we are successful. We will need to review the results before proceeding with Method 3545 extractions.

We will need results by August 12 for the Method 3540C samples (2-week TAT). Please give me a call if you have any questions.


Accutest ID	GEI ID	Initial Conc. (PPM)	Dilution	Matrix	Sample Date	Sample Depth (in.)
M91579-102	HS-AT-5-8	1.23	NA	Sand	5/20/2010	0-6
M91909-28	B213(0.5 -2)	1.33	NA	Sand	6/2/2010	6-24
M91579-62	HS-AI-10.5	12.7	13X	Sand	5/20/2010	0-6
M91081-9	CS-RWA104	2.4	2.5X	Sand	4/30/2010	6
M91651-111	HS-BDS.6	3.4	3.5X	Sand	5/24/2010	0-6
M91651-112	HS-BDS.7	3.4	3.5X	Sand	5/25/2010	0-6

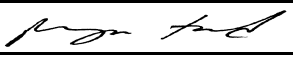
Regards,
Ray

Raymond Siegenger, Ph.D.
Project Environmental Scientist
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
Office: 781-721-4098
Cell: 339-227-3342
www.geiconsultants.com

CONFIDENTIALITY NOTICE: The information in this transmittal (including attachments, if any) may be privileged and confidential and is intended only for the recipient(s) listed above. If you are not a named recipient, please do not disseminate, copy, or otherwise use this information. If you have received this transmittal in error, please notify me immediately by reply email and destroy all copies of the transmittal.

8/2/2010

	Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	BWSC-CAM	Exhibit VII A-1
		21 May 2004	Revision No. 3.2
		Final	Page 10 of 32
Title: MADEP MCP Response Action Analytical Report Certification Form			

MADEP MCP Analytical Method Report Certification Form					
Laboratory Name: <u>Accutest Laboratories of New England</u>		Project #: <u>M91579T</u>			
Project Location: <u>Canton Airport Canton MA</u>		MADEP RTN	None		
This form provides certifications for the following data set: M91579-102T, M91579-62T					
Sample Matrices: Groundwater Soil/Sediment X Drinking Water () Other: () ()					
MCP SW-846 Methods Used As specified in MADEP Compendium of Analytical Methods. (Check all that apply)	8260B ()	8151A ()	8330 ()	6010B ()	7470A/1A ()
	8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
	8082 (X)	8021B ()	EPH ()	7000 S ³ ()	7196A ()
1 List Release Tracking Number (RTN), if known 2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S - SW-846 Methods 7000 Series List Individual method and analyte					
An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty" status					
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?			<input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?			<input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?			<input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No ¹
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?			<input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No ¹
A response to questions E and F below is required for "Presumptive Certainty" status					
E	Were all QC performance standards and recommendations for the specified methods achieved?			<input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No ¹
				Refer to Narrative	
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?			<input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No ¹
				Refer to Narrative	
¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.					
I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.					
Signature: 		Position: <u>Laboratory Director</u>			
Printed Name: <u>Reza Tand</u>		Date: <u>08/12/2010</u>			

Internal Sample Tracking Chronicle

GEI Consultants, Inc.

Job No: M91579T

Canton Airport Canton MA
Project No: 09382-2

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91579-62TCollected: 20-MAY-10 10:04 By: SSH Received: 21-MAY-10 By: JB 093822-HS-AF-5.5						
M91579-62T	SW846 8082	08-AUG-10 00:26	CZ	05-AUG-10	BJ	P8082SOXHLET
M91579-62T	SW846 8082	09-AUG-10 18:48	CZ	05-AUG-10	BJ	P8082SOXHLET
M91579-102TCollected: 20-MAY-10 10:13 By: SSH Received: 21-MAY-10 By: JB 093822-HS-AT.5-8						
M91579-102T	SW846 8082	05-AUG-10 00:46	CZ	03-AUG-10	BJ	P8082SOXHLET
M91579-102T	SW846 8082	05-AUG-10 15:04	CZ	03-AUG-10	BJ	P8082SOXHLET

GC Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M91579T
Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22182-MB	YZ59029.D	1	08/04/10	CZ	08/03/10	OP22182	GYZ2518

The QC reported here applies to the following samples:

Method: SW846 8082

M91579-102T

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	98	ug/kg	
11104-28-2	Aroclor 1221	ND	98	ug/kg	
11141-16-5	Aroclor 1232	ND	98	ug/kg	
53469-21-9	Aroclor 1242	ND	98	ug/kg	
12672-29-6	Aroclor 1248	ND	98	ug/kg	
11097-69-1	Aroclor 1254	ND	98	ug/kg	
11096-82-5	Aroclor 1260	ND	98	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	100% 30-150%
877-09-8	Tetrachloro-m-xylene	103% 30-150%
2051-24-3	Decachlorobiphenyl	102% 30-150%
2051-24-3	Decachlorobiphenyl	101% 30-150%

Method Blank Summary

Page 1 of 1

Job Number: M91579T
Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22217-MB	YZ59159.D	1	08/07/10	CZ	08/05/10	OP22217	GYZ2524

The QC reported here applies to the following samples:

Method: SW846 8082

M91579-62T

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	97	ug/kg	
11104-28-2	Aroclor 1221	ND	97	ug/kg	
11141-16-5	Aroclor 1232	ND	97	ug/kg	
53469-21-9	Aroclor 1242	ND	97	ug/kg	
12672-29-6	Aroclor 1248	ND	97	ug/kg	
11097-69-1	Aroclor 1254	ND	97	ug/kg	
11096-82-5	Aroclor 1260	ND	97	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	102% 30-150%
877-09-8	Tetrachloro-m-xylene	110% 30-150%
2051-24-3	Decachlorobiphenyl	101% 30-150%
2051-24-3	Decachlorobiphenyl	126% 30-150%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M91579T
Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22182-BS	YZ59030.D	1	08/04/10	CZ	08/03/10	OP22182	GYZ2518
OP22182-BSD	YZ59064.D	1	08/05/10	CZ	08/03/10	OP22182	GYZ2519

The QC reported here applies to the following samples:

Method: SW846 8082

M91579-102T

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	261	282	108	281	110	0	40-140/30
11104-28-2	Aroclor 1221		ND		ND		nc	40-140/30
11141-16-5	Aroclor 1232		ND		ND		nc	40-140/30
53469-21-9	Aroclor 1242		ND		ND		nc	40-140/30
12672-29-6	Aroclor 1248		ND		ND		nc	40-140/30
11097-69-1	Aroclor 1254		ND		ND		nc	40-140/30
11096-82-5	Aroclor 1260	261	277	106	266	104	4	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	102%	105%	30-150%
877-09-8	Tetrachloro-m-xylene	102%	103%	30-150%
2051-24-3	Decachlorobiphenyl	106%	93%	30-150%
2051-24-3	Decachlorobiphenyl	105%	100%	30-150%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M91579T

Account: GEI GEI Consultants, Inc.

Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22217-BS	YZ59160.D	1	08/07/10	CZ	08/05/10	OP22217	GYZ2524
OP22217-BSD	YZ59161.D	1	08/07/10	CZ	08/05/10	OP22217	GYZ2524

The QC reported here applies to the following samples:

Method: SW846 8082

M91579-62T

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	255	277	109	292	112	5	40-140/30
11104-28-2	Aroclor 1221		ND		ND		nc	40-140/30
11141-16-5	Aroclor 1232		ND		ND		nc	40-140/30
53469-21-9	Aroclor 1242		ND		ND		nc	40-140/30
12672-29-6	Aroclor 1248		ND		ND		nc	40-140/30
11097-69-1	Aroclor 1254		ND		ND		nc	40-140/30
11096-82-5	Aroclor 1260	255	283	111	303	116	7	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	110%	112%	30-150%
877-09-8	Tetrachloro-m-xylene	118%	118%	30-150%
2051-24-3	Decachlorobiphenyl	109%	114%	30-150%
2051-24-3	Decachlorobiphenyl	134%	139%	30-150%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M91579T
Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22182-MS	YZ59032.D	1	08/04/10	CZ	08/03/10	OP22182	GYZ2518
OP22182-MSD	YZ59033.D	1	08/04/10	CZ	08/03/10	OP22182	GYZ2518
M93301-7	YZ59043.D	1	08/04/10	CZ	08/03/10	OP22182	GYZ2518

The QC reported here applies to the following samples:

Method: SW846 8082

M91579-102T

CAS No.	Compound	M93301-7	Spike	MS	MS	MSD	MSD	RPD	Limits
		ug/kg	Q	ug/kg	ug/kg	%	ug/kg		%
12674-11-2	Aroclor 1016	ND	299	320	107	261	88	20	40-140/50
11104-28-2	Aroclor 1221	ND		ND		ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND		ND		ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND		ND		ND		nc	40-140/50
12672-29-6	Aroclor 1248	ND		ND		ND		nc	40-140/50
11097-69-1	Aroclor 1254	93.7		170		114		39	40-140/50
11096-82-5	Aroclor 1260	ND	299	296	99	209	70	34	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	M93301-7	Limits
877-09-8	Tetrachloro-m-xylene	104%	76%	108%	30-150%
877-09-8	Tetrachloro-m-xylene	107%	79%	113%	30-150%
2051-24-3	Decachlorobiphenyl	99%	73%	83%	30-150%
2051-24-3	Decachlorobiphenyl	91%	65%	76%	30-150%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M91579T
Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22217-MS	YZ59162.D	1	08/07/10	CZ	08/05/10	OP22217	GYZ2524
OP22217-MSD	YZ59163.D	1	08/07/10	CZ	08/05/10	OP22217	GYZ2524
M93324-1	YZ59164.D	1	08/07/10	CZ	08/05/10	OP22217	GYZ2524

The QC reported here applies to the following samples:

Method: SW846 8082

M91579-62T

CAS No.	Compound	M93324-1		Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
		ug/kg	Q							
12674-11-2	Aroclor 1016	ND		262	285	109	277	105	3	40-140/50
11104-28-2	Aroclor 1221	ND			ND		ND	nc	40-140/50	
11141-16-5	Aroclor 1232	ND			ND		ND	nc	40-140/50	
53469-21-9	Aroclor 1242	ND			ND		ND	nc	40-140/50	
12672-29-6	Aroclor 1248	ND			ND		ND	nc	40-140/50	
11097-69-1	Aroclor 1254	ND			ND		ND	nc	40-140/50	
11096-82-5	Aroclor 1260	ND		262	321	122	308	117	4	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	M93324-1	Limits
877-09-8	Tetrachloro-m-xylene	114%	108%	109%	30-150%
877-09-8	Tetrachloro-m-xylene	121%	111%	118%	30-150%
2051-24-3	Decachlorobiphenyl	127%	118%	117%	30-150%
2051-24-3	Decachlorobiphenyl	126%	123%	124%	30-150%

Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M91579T
Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Method: SW846 8082 Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
M91579-62T	YZ59168.D	79.0	41.0	78.0	99.0
M91579-62T	YZ59199.D	91.0	56.0	91.0	92.0
M91579-102T	YZ59062.D	0.0* ^c	0.0* ^c	0.0* ^c	0.0* ^c
M91579-102T	YZ59050.D	106.0	108.0	150.0	151.0* ^d
OP22182-BS	YZ59030.D	102.0	102.0	106.0	105.0
OP22182-BSD	YZ59064.D	105.0	103.0	93.0	100.0
OP22182-MB	YZ59029.D	100.0	103.0	102.0	101.0
OP22182-MS	YZ59032.D	104.0	107.0	99.0	91.0
OP22182-MSD	YZ59033.D	76.0	79.0	73.0	65.0
OP22217-BS	YZ59160.D	110.0	118.0	109.0	134.0
OP22217-BSD	YZ59161.D	112.0	118.0	114.0	139.0
OP22217-MB	YZ59159.D	102.0	110.0	101.0	126.0
OP22217-MS	YZ59162.D	114.0	121.0	127.0	126.0
OP22217-MSD	YZ59163.D	108.0	111.0	118.0	123.0

Surrogate Compounds Recovery Limits

S1 = Tetrachloro-m-xylene 30-150%
S2 = Decachlorobiphenyl 30-150%

- (a) Recovery from GC signal #1
- (b) Recovery from GC signal #2
- (c) Outside control limits due to dilution.
- (d) Outside control limits due to possible matrix interference.

5.4.1

5